

## TEMPERATURE TUNED ARRAYED WAVEGUIDE GRATING

### Abstract of the Disclosure

A temperature gradient may be provided across an array of waveguides in an arrayed waveguide grating. As a result, temperature tuning may be provided to adjust the characteristics of the arrayed waveguide grating. For example, the array of waveguides positioned on one side of a planar light wave circuit may be heated by a similarly configured array of heaters on the opposite side of the circuit. In some cases the number of heaters may be less than the number of arrayed waveguides. Also, each of the heaters in one embodiment may be selectively actuatable.